

## ABSTRACT

Computer program products, methods, systems, and apparatus for fingerprinting and process matching process tools such as process tools used for processing workpieces are described. One embodiment includes a method to determine process matching of one or more process tools using a first data set and a second data set. The first data set and the second data set include an operating characteristic for a process. The method comprises fingerprinting the one or more process tools using the first data set and the second data set; finding correspondences between transition points in the first data set and the second data set; and comparing the first data set and second data set using the correspondences to determine whether the first data set and the second data set match so as to indicate whether the one or more process tools match.